

WHAT IS CLAIMED IS:

1. A solar cell having a silver paste electrode coated with lead-free solder, wherein said silver paste electrode is formed by firing silver paste, and powdery glass included in said silver paste has an average grain size of 11  $\mu\text{m}$  at most.

2. A solar cell having a silver paste electrode coated with lead-free solder, wherein said silver paste electrode is formed by firing silver paste, and an amount of powdery glass included in said silver paste is 2.8 to 10.0 mass %.

3. A solar cell having a silver paste electrode coated with lead-free solder, wherein said silver paste electrode after firing has an average thickness of at least 15  $\mu\text{m}$ .

5 4. A fabrication method of a solar cell comprising the steps of printing silver paste at a partial region at a light receiving side of an anti-reflection film and at a partial region at a back side of a p type silicon substrate, firing said silver paste to form a silver paste electrode, and coating said silver paste electrode with lead-free solder, wherein powdery glass sifted through a sieve having an opening diameter of 73  $\mu\text{m}$  at most is used as said powdery glass included in said silver paste.

5 5. A fabrication method of a solar cell comprising the steps of printing silver paste at a partial region at a light receiving side of an anti-reflection film and at a partial region at a back side of a p type silicon substrate, firing said silver paste to form a silver paste electrode, and coating said silver paste electrode with lead-free solder, wherein the step of printing silver paste includes applying silver paste at least two times.

6. A fabrication method of a solar cell comprising the steps of printing silver paste at a partial region at a light receiving side of an anti-

5 reflection film and at a partial region at a back side of a p type silicon substrate, firing said silver paste to form a silver paste electrode, and coating said silver paste electrode with lead-free solder, wherein the step of printing silver paste includes applying silver paste using a mask having a thickness of three times a wire diameter.

7. An interconnector for a solar cell, said interconnector coated with lead-free solder, and said interconnector connected to a silver paste electrode of a solar cell by lead-free solder.

5 8. A solar cell string interconnecting a solar cell having a silver paste electrode coated with lead-free solder with an interconnector for a solar cell, wherein said paste electrode is formed by firing silver paste, and powdery glass included in said silver paste has an average grain size of 11  $\mu\text{m}$  at most.

5 9. A solar cell module incorporated with a string interconnecting a solar cell having a silver paste electrode coated with lead-free solder with an interconnector for a solar cell, wherein said paste electrode is formed by firing silver paste, and powdery glass included in said silver paste has an average grain size of 11  $\mu\text{m}$  at most .

5 10. A solar cell module incorporated with a string interconnecting a solar cell having a silver paste electrode coated with lead-free solder with an interconnector for a solar cell, wherein said paste electrode is formed by firing silver paste, and an amount of powdery glass included in said silver paste is 2.8 to 10.0 mass %.

11. A solar cell module incorporated with a string interconnecting a solar cell having a silver paste electrode coated with lead-free solder with an interconnector for a solar cell, wherein said silver paste electrode after firing has an average thickness of at least 15  $\mu\text{m}$ .